WHAT IS CLAIMED IS

1.   A bit error measurement apparatus for measuring a bit error of a transmission network through which transmission of a packet having digital data to be transmitted is executed, comprising:

a packet extraction means for extracting an equivalence packet whose all of said digital data should have the same values from among said packets transmitted through said transmission network;

a data comparison means for comparing said digital data of said equivalence packet to comparison data that should have the value of said digital data of said equivalence packet; and

an error judgment means for judging the data as an error when result of said comparison is disagreement.

2.   A bit error measurement apparatus according to claim 1, wherein said comparison data is either 0 or 1.

3.   A bit error measurement method for measuring a bit error of a transmission network through which transmission of a packet having digital data to be transmitted is executed, comprising:

a packet extraction step for extracting an equivalence packet whose all of said digital data should have the same values from among said packets transmitted through said transmission network;

a data comparison step for comparing said digital data of said equivalence packet to comparison data that should have the value of said digital data of said equivalence packet; and

an error judgment step for judging the data as an error when result of said comparison is disagreement.

4.   A computer-readable medium having a program of instructions for execution by the computer to perform a bit error measurement process for measuring a bit error of a transmission network through which transmission of a packet having digital data to be transmitted is executed, comprising:

a packet extraction processing for extracting an equivalence packet whose all of said digital data should have the same values from among said packets transmitted through said transmission network;

a data comparison processing for comparing said digital data of said equivalence packet to comparison data that should have the value of said digital data of said equivalence packet; and

an error judgment processing for judging the data as an error when result of said comparison is disagreement.

5.   A bit error measurement apparatus for measuring a bit error of a transmission network through which transmission of a packet with digital data to be transmitted is executed, comprising:

a packet extraction means for extracting a packet for measurement to measure a bit error from among said packets transmitted through said transmission network;

a data comparison means for comparing said digital data of said packet for measurement to comparison data that should have the value of said digital data of said packet for measurement; and

an error judgment means for judging the data as an error when result of

said comparison is disagreement.

6.   A bit error measurement apparatus according to claim 5, wherein said comparison data is a pseudo-random signal.

7.   A bit error measurement method for measuring a bit error of a transmission network through which transmission of a packet with digital data to be transmitted is executed, comprising:

        a packet extraction step for extracting a packet for measurement to measure a bit error from among said packets transmitted through said transmission network;

        a data comparison step for comparing said digital data of said packet for measurement to comparison data that should have the value of said digital data of said packet for measurement; and

        an error judgment step for judging the data as an error when result of said comparison is disagreement.

8.   A computer-readable medium having a program of instructions for execution by the computer to perform a bit error measurement process for measuring a bit error of a transmission network through which transmission of a packet having digital data to be transmitted is executed, comprising:

        a packet extraction processing for extracting a packet for measurement to measure a bit error from among said packets transmitted through said transmission network;

        a data comparison processing for comparing said digital data of said packet for measurement to comparison data that should have the value of said

digital data of said packet for measurement; and

an error judgment processing for judging the data as an error when result of said comparison is disagreement.